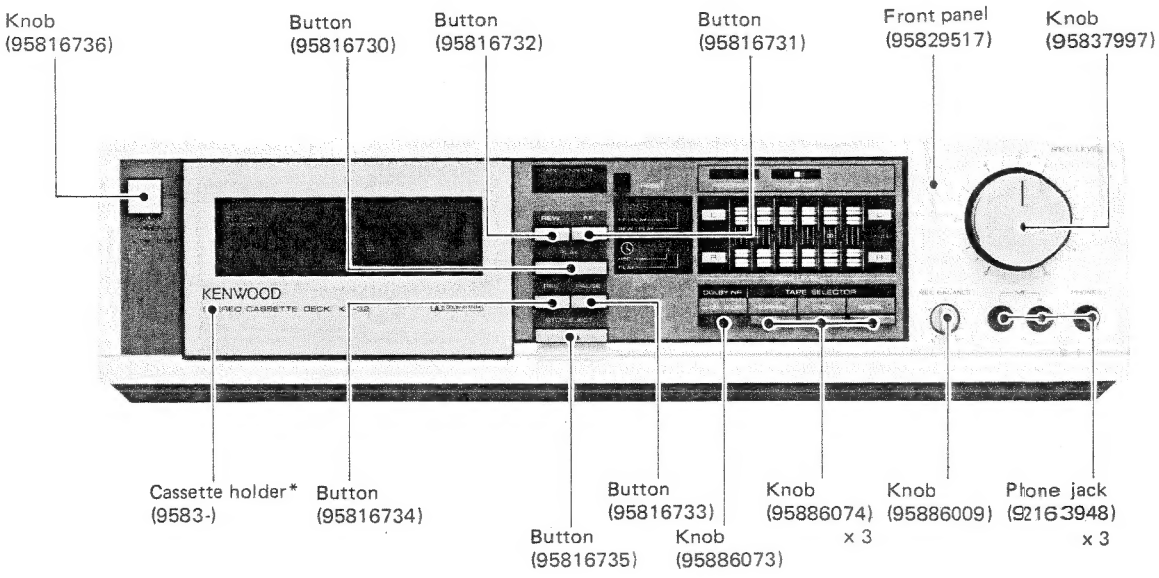
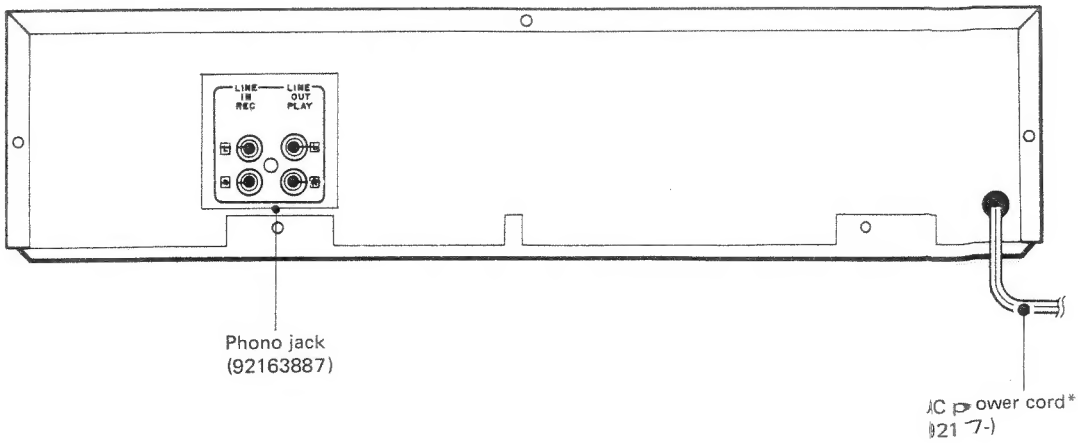
SERVICE MANUAL

KENWOOD

KX-32
KX-32B

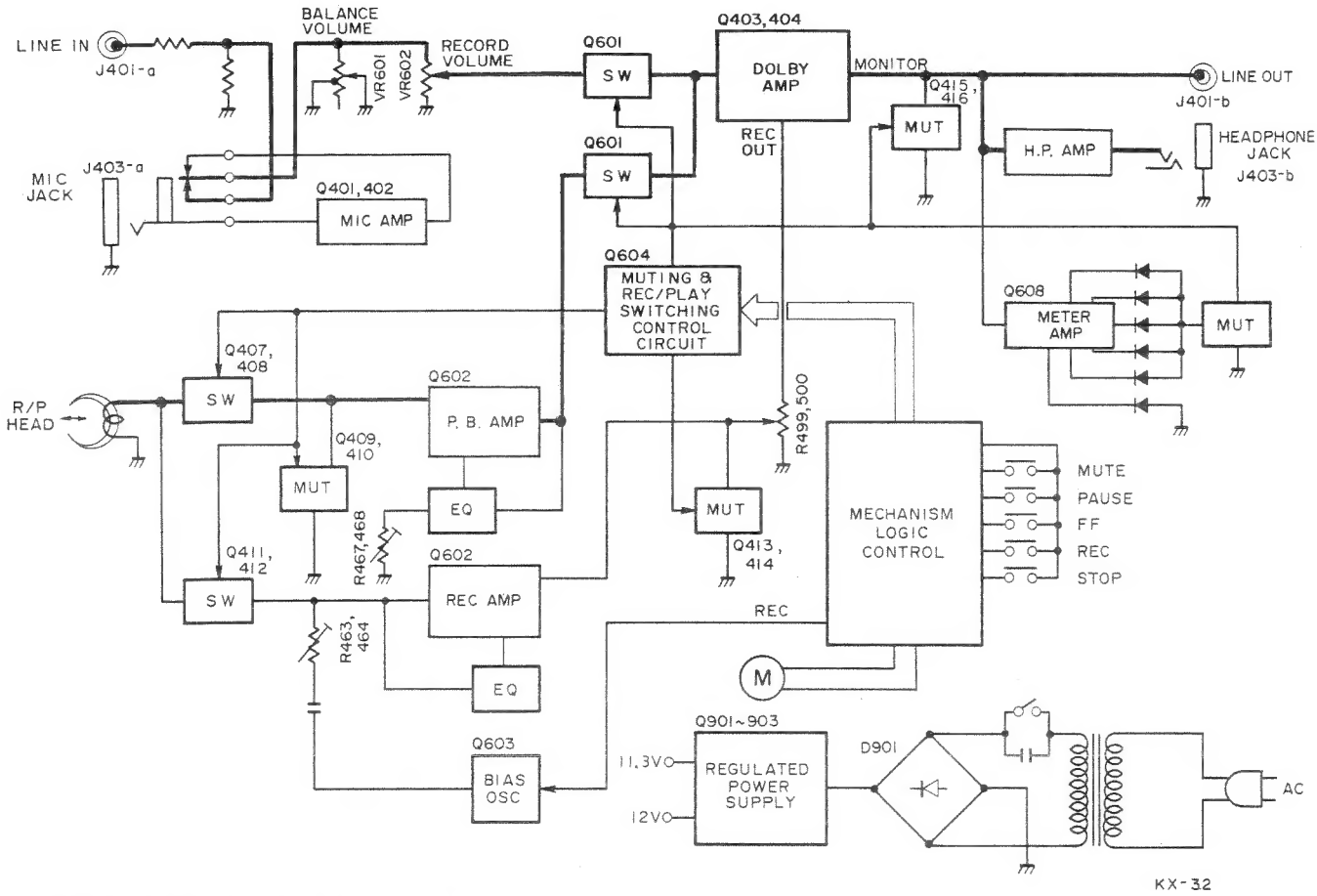
STEREO CASSETTE DECK





* Refer to Parts List on Page 16.
Photo is KX-32.

BLOCK DIAGRAM/DESCRIPTION OF MECHANISM OPERATION



1. OPERATION OF EACH SECTION

1–1 Starting the play

If PLAY button (48) is pressed, PLAY lever (76) is turned in the direction of Ⓐ by the cam of PLAY slider (62) until the sliding boss at the end of PLAY lever (76) is meshed with cam gear (81). As the result, the cut-off gear of cam gear (81) is meshed with the flywheel gear and the cam gear is rotated. Since PLAY lever (76) is linked with switch slider (83) switch slider (83) slides in the direction of arrow Ⓑ to press the leaf switch, and the current flows.

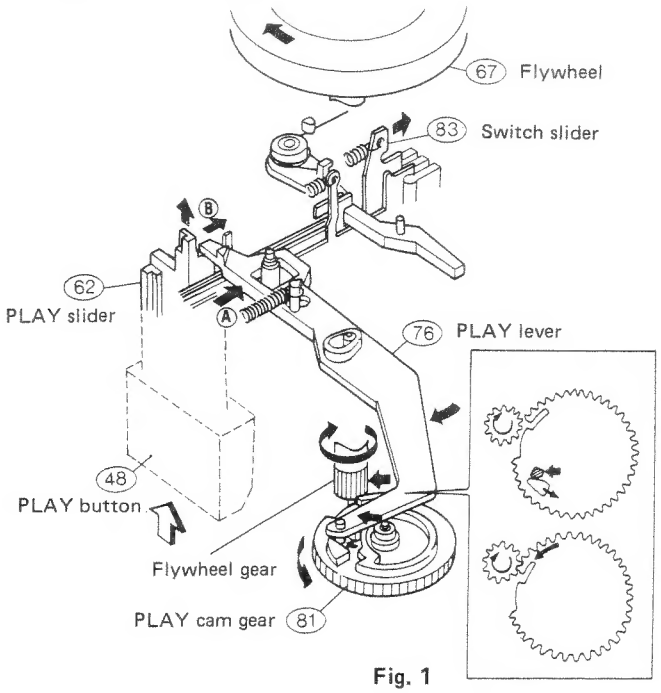


Fig. 1

DESCRIPTION OF MECHANISM OPERATION

1–2

If PLAY cam gear ⑧① starts, PLAY drive lever ⑪ is moved by the cam in the direction of arrow Ⓐ and the head slider ㉕ and pinch lever ㉝ which are linked with PLAY drive lever ⑪ are moved in the direction of arrow Ⓑ. Winder lever ⑫⓪ moves in the direction of arrow Ⓒ along the cam above head slider ㉕ , and winder gear ⑪⑧ is meshed with winder reel stand ⑯.

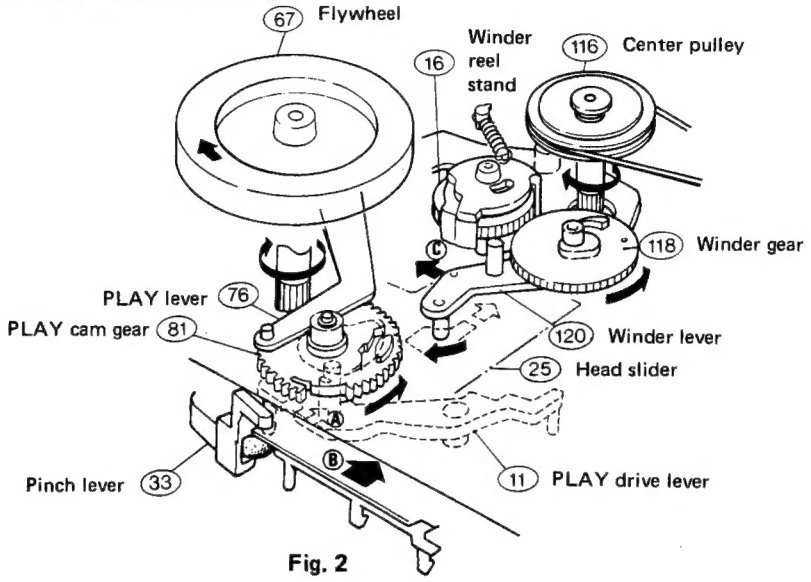


Fig. 2

1–3

PLAY cam gear ⑧① rotates about one turn and stops when its stopper contacts the sliding boss of PLAY lever ⑦⑥. PLAY drive lever ⑪ always a rotary force to cam gear ⑧① in the direction of arrow Ⓐ.

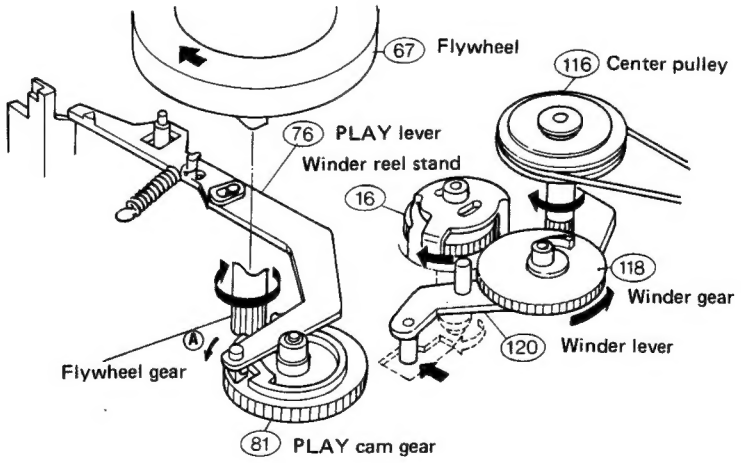


Fig. 3

DESCRIPTION OF MECHANISM OPERATION

1–4 Stopping

If STOP button (50) is pressed, STOP slider (59) moves lock slider (85) in the direction of arrow Ⓐ to release PLAY slider (62), then PLAY slider (62) returns in the direction of arrow Ⓑ, Since PLAY lever (76) also returns in the direction of arrow Ⓒ, its sliding boss returns in the direction of arrow Ⓓ, and the lock of cam gear (81) is released. When PLAY lever (76) returns, switch slider (83) also returns in the direction of arrow Ⓔ to turn off the power. If the cam gear is released, it returns to the original position, PLAY drive lever (11) returns, and head slider (25) and pinch lever assembly (33) lower.

As the head slider moves, winder gear (18) is separated from the reel stand (Fig. 2).

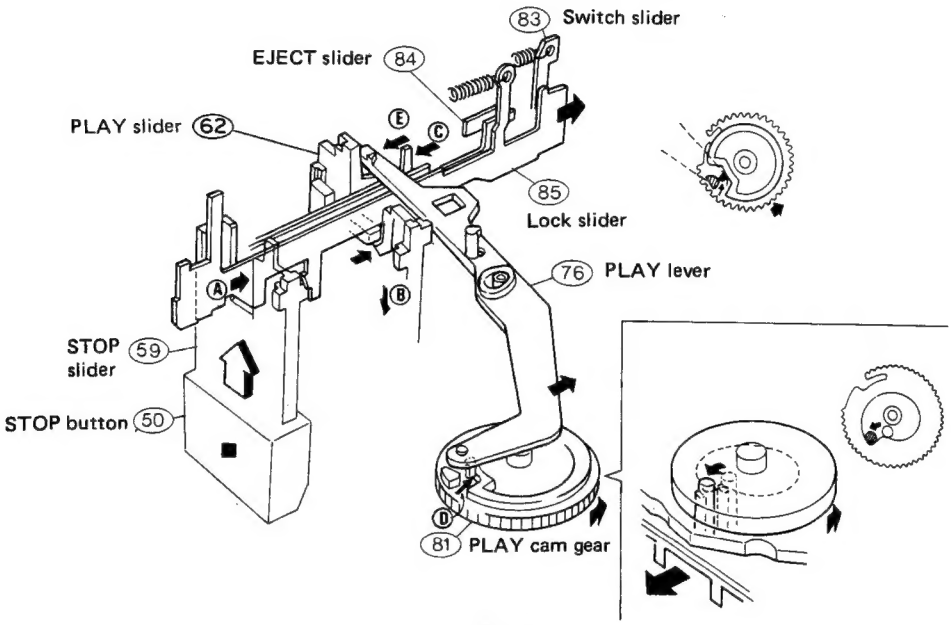


Fig. 4

1–5 FF initial operation

If FF button (52) is pressed, FF slider (61) moves REW slider (106) in the direction of arrow Ⓐ. REW drive slider (8) which is linked with REW slider (106) through the pin is moved in the direction of Ⓑ.

High-speed lever (75) is operated by the projection of FF slider (61) and the sliding boss at the end of high-speed lever rotates high-speed cam gear (96) to mesh it with the flywheel gear to rotate it. After cam gear (96) rotates about one turn, it is stopped by the sliding boss of high-speed lever (75) at the stopper.

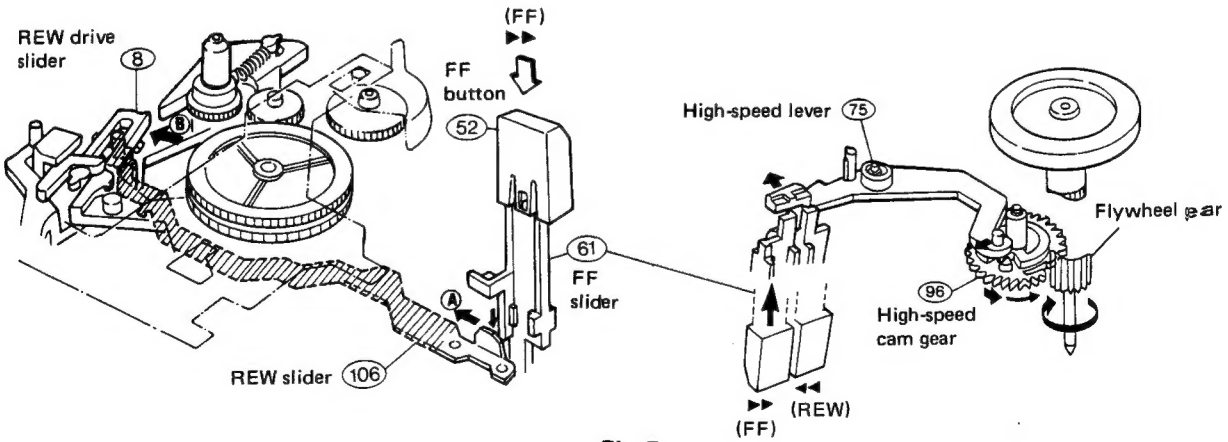


Fig. 5

DESCRIPTION OF MECHANISM OPERATION

1–6 FF operation

As high-speed cam gear ⑯ rotates, high-speed drive lever ⑦ is moved in the direction of arrow Ⓐ and REW drive slider ⑧ is moved in the direction of arrow Ⓑ. As the result, high–speed drive lever ⑦ moves and stopper Ⓓ of high-speed gear lever ⑤ is separated, and high-speed gear lever ⑤ moves in the direction of arrow Ⓒ. Then, FF gear ③ meshes with high-speed cam gear ⑯ and winder ⑯, and FF operation is started.

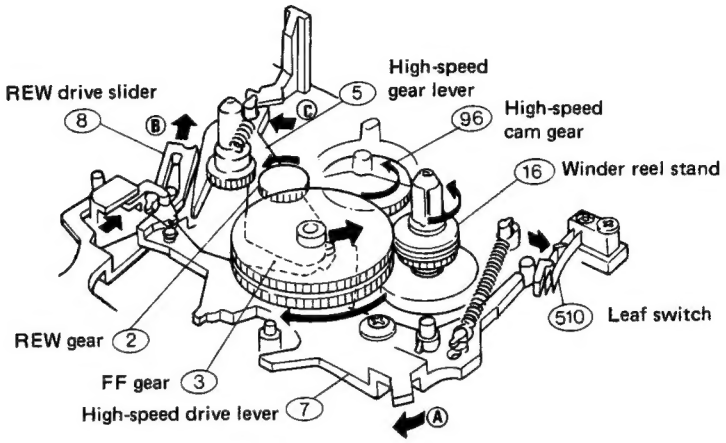


Fig. 6

1–7 REW initial operation

If REW button ⑤① is pressed, REW operation slider ⑥① moves REW slider ⑩⑥ in the direction of arrow Ⓐ, and REW drive slider ⑧ is moved in the direction of arrow Ⓑ. High-speed lever ⑦⑤ is moved by the projection of REW operation slider ⑥⓪, and high-speed cam gear ⑨⑥ is rotated by the sliding boss at the end of high-speed lever ⑦⑤ and cam gear ⑨⑥ is meshed with the flywheel gear to be rotated (in the same operation as FF).

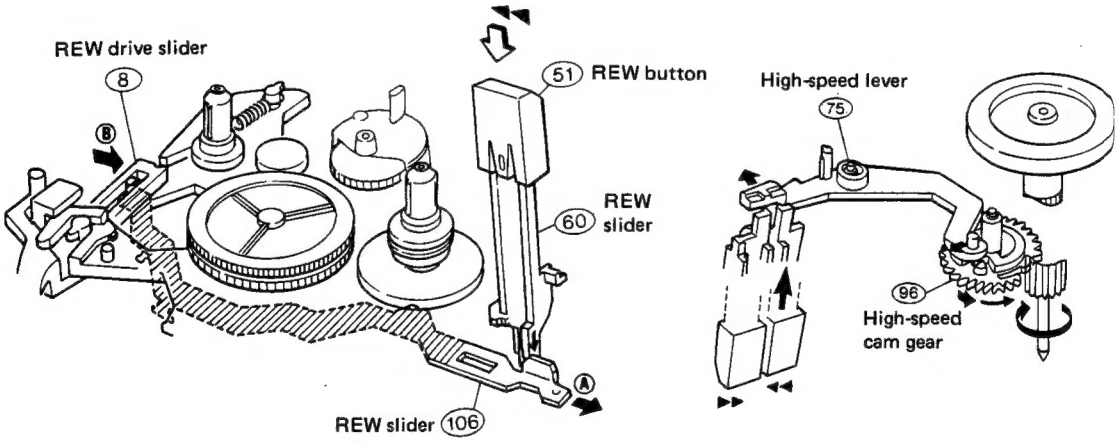


Fig. 7

DESCRIPTION OF MECHANISM OPERATION

1–8 REW operation

Similarly to FF operation, high-speed drive lever ⑦ is moved by the rotation of high-speed cam gear ⑯, and REW drive slider ⑧ is linked with high-speed gear lever ⑤ and moved in the direction of arrow Ⓐ. As the result, high-speed gear lever ⑤ is moved in the direction of arrow Ⓑ, and the high-speed gear, REW gear ②, FF gear ③, and the gear of supply reel stand are meshed together and REW operation is started.

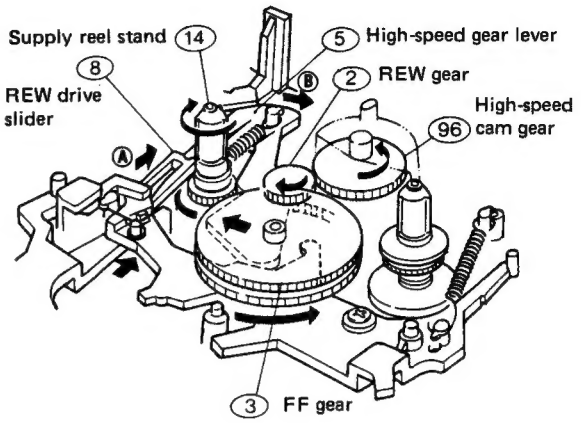


Fig. 8

1–9 CUE operation

If FF button is pressed during PLAY operation, high-speed drive lever ⑦ is moved to press pinch lever assembly ㉝ as in FF operation. As the pinch roller is separated from the capstan shaft, winder lever ⑫⓪ is moved to disengage the winder gear on the winder lever from the winder reel stand, and head slider ㉕ is pressed down. After high-speed drive lever ⑦ is moved, FF operation is started.

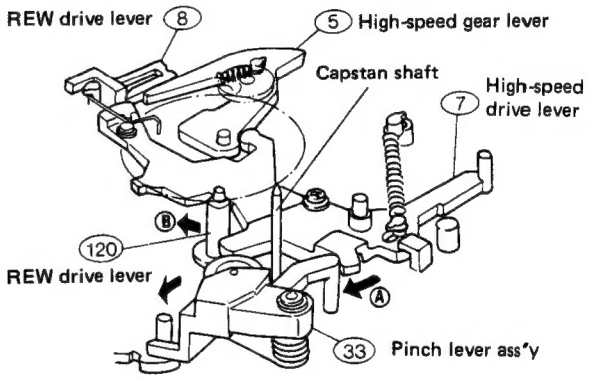


Fig. 9

1–10 REVIEW operation

If REW button is pressed during PLAY operation, pinch lever assembly ㉝ is separated from winder lever ⑫⓪ as in CUE operation and REW operation is started.

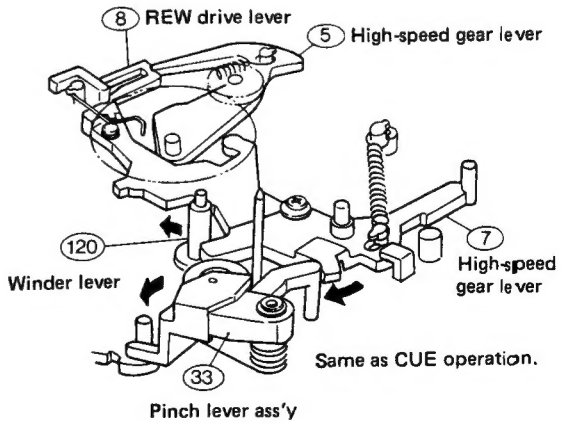


Fig. 10

DESCRIPTION OF MECHANISM OPERATION

1–11 PAUSE operation on flywheel side

If PAUSE button (53) is pressed, the cam at Ⓐ of PAUSE slider (63) slides PAUSE lever (77). The sliding boss at the end of PAUSE lever (80) rotates PAUSE cam gear (80) until it is meshed with flywheel gear, and cam gear (80) is rotated in the direction of Ⓑ. Cam gear (80) stops after about one turn at the stopper.

PAUSE lever always apply a force to rotate the gear in the direction of arrow Ⓑ.

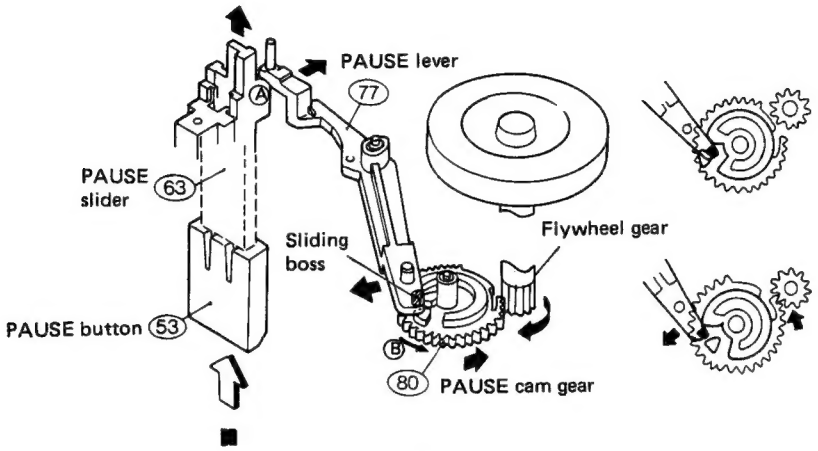


Fig. 11

1–12 PAUSE operation on head side

If PAUSE cam gear (80) rotates, the boss of PAUSE drive lever (46) moves along the cam surface, and PAUSE drive lever (46) moves in the direction of arrow Ⓐ.

PAUSE drive lever moves pinch lever (33) in the direction of arrow Ⓑ and winder lever (120) in the direction of arrow Ⓒ. As the result, the winder gear on winder lever (120) is separated from the reel stand and the pinch roller is separated from the capstan shaft.

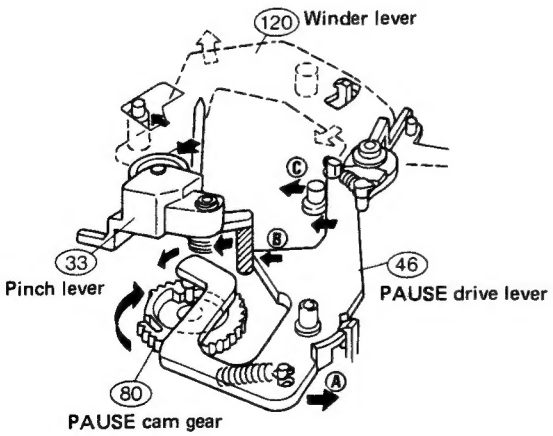


Fig. 12

1–13 PAUSE lock release on flywheel side

If PAUSE slider (63) is released in the direction of arrow Ⓐ, PAUSE lever (77) returns in the direction of arrow Ⓑ, and the sliding boss at its end is released from the stopper of PAUSE cam gear (80) and returned to the groove.

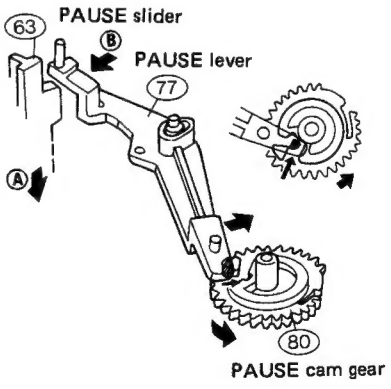


Fig. 13

DESCRIPTION OF MECHANISM OPERATION

1–14 PAUSE lock release on head side

If PAUSE lever ⑦⑦ is released, PAUSE cam gear ⑧⑩ is rotated in the direction of arrow Ⓐ and the boss of PAUSE drive lever ④⑥ is moved in the direction of arrow Ⓑ, and PAUSE operation is released.

1–15 ASO–(1)

When each operation button is pressed, the operation lever linked with the cam of each operation slider moves slider ⑧③, and ASO lever ⑦① linked with the switch slider moves to release ASO detector lever ⑩⑦.

While winder reel stand ①⑥ is rotating, the friction lever in the winder reel stand works as a clutch. That is, a force to rotate the friction lever in the same direction as the reel stand is applied, and ASO detector lever ⑩⑦ is pressed in the direction of arrow Ⓐ, and the sliding boss of ASO detector lever ⑩⑦ slides along the eccentric cam of winder gear ①①⑧ to swing ASO detector lever ⑩⑦ in the direction of arrow Ⓑ.

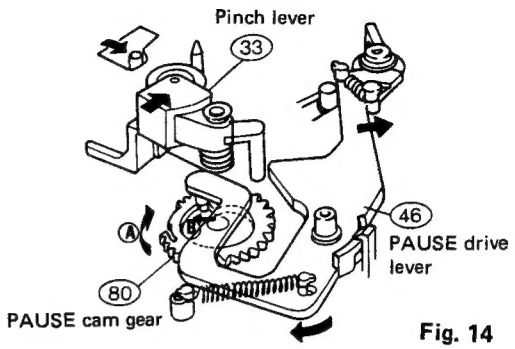


Fig. 14

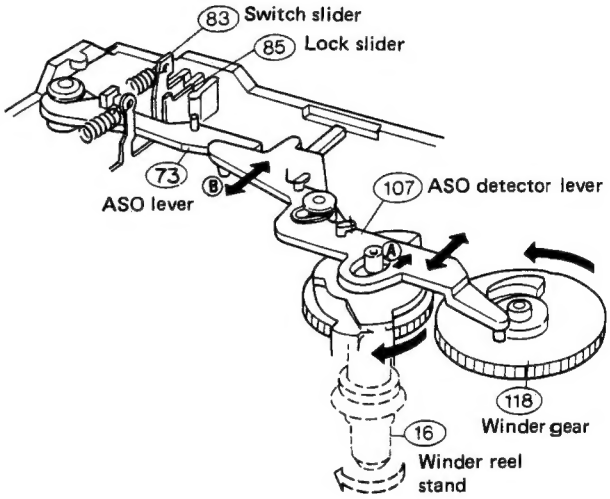


Fig. 15

1–16 ASO–(2)

If winder reel stand ①⑥ stops, the friction lever is set free, and ASO detector lever ⑩⑦ is also set free. Therefore, the boss which is sliding on the cam surface of winder gear ①①⑧ stops on the most eccentric point of the cam then moves up to the projection of the gear. At this time, ASO detector lever ⑩⑦ moves ASO lever ⑦③, which moves lock slider ⑧⑤ in the direction of arrow Ⓒ to release the lock.

As lock plate ⑧⑤ moves, the operation slider is returned and each operation is stopped. When the operation lever is returned switch slider ⑧③ is returned to turn off the power (Fig. 15).

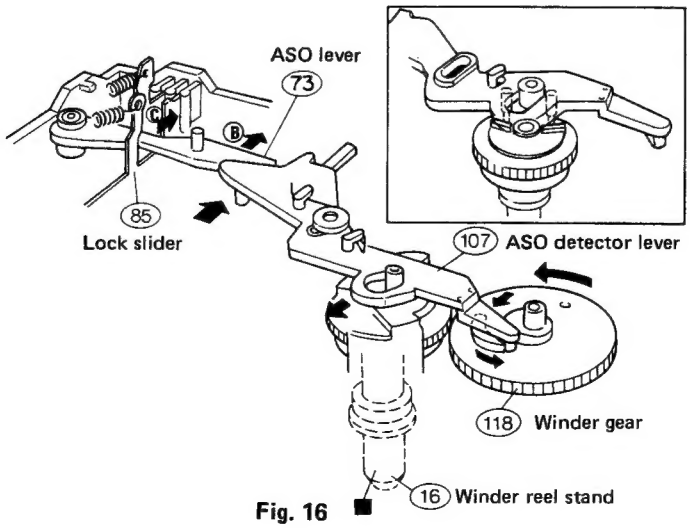
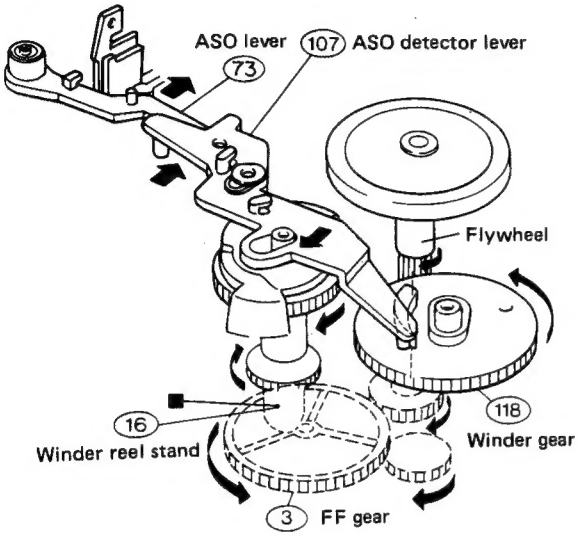


Fig. 16

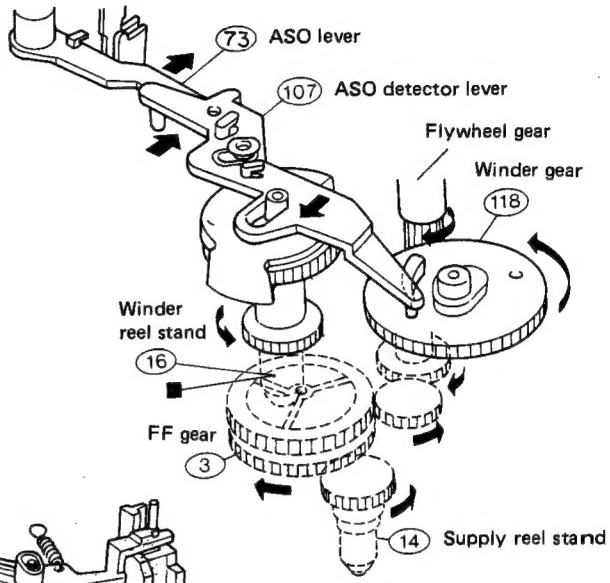
DESCRIPTION OF MECHANISM OPERATION

1–17 ASO from FF/REW operation

Same as PLAY operation. If PAUSE operation is started, ASO PAUSE lever ㊹ is rotated as PAUSE drive lever㊻ is rotated, and the arm of ASO PAUSE lever ㊹ is linked with the boss of ASO detector lever ⑩⑦ and continuously pressed in the direction of the eccentric cam of the winder gear to hold ASO.



(FF) **Fig. 17**



(REW) **Fig. 18**

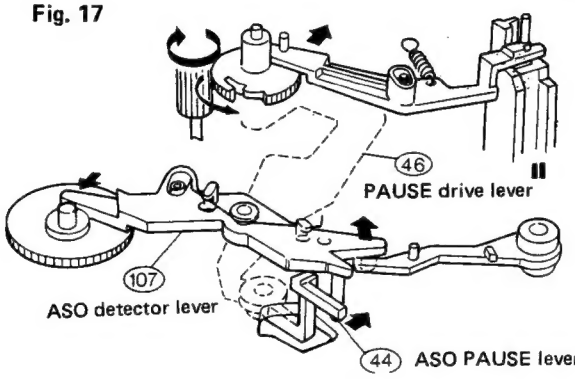


Fig. 19

1–18 EJECT operation

If EJECT button ㊿ is pressed, EJECT slider ㉞ is moved in the direction of arrow Ⓐ and holder lock lever㊷ is moved in the direction of arrow Ⓑ.
During STOP operation, since switch slider ㉝ is also moved in the direction of arrow Ⓒ, STOP slider ㊾ is not put on cam Ⓓ of EJECT slider ㉞, and therefore holder lock lever ㊷ does not move (since the double action is set).

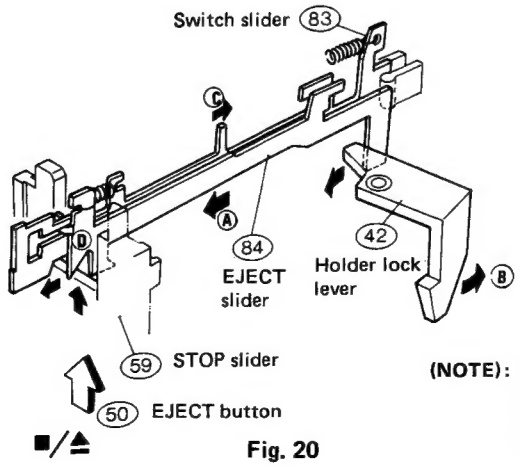


Fig. 20

(NOTE): Same part names in the drawings may be different from those in the parts list, when ordering parts, refer to the parts list on pages 19, 20.

ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE : NORMAL, DOLBY : OFF, INPUT : LINE					
I	**REC/PLAY HEAD**						
[1]	**DEMAGNETIZATION**	–	–	POWER : OFF Remove the cassette door	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	**CLEANING**	–	–	PLAY	REC/PLAY head erase head, capstan, pinch roller	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[3]	**AZIMUTH**	MTT-256 10 kHz, –20 dBs	(A)	PLAY	Azimuth adjustment screw	Adjust the azimuth adjustment screw so that the output voltage is maximized in both forward and reverse direction.	
DC MOTOR							
(I)	**TAPE SPEED**	MTT-111 MTT-111D	(B)	PLAY	Trimming potentiometer in the DC motor	Adjust the tape speed so that a 3 kHz signal is produced at the center of the tape.	
II	**PC BOARD**						
(1)	**PLAYBACK LEVEL**	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (L) R468 (R)	Output level : –6.5 dBs	
(2)	**BIAS OSCILLATOR**	—	—	REC/PAUSE METAL position Connect the frequency counter to TP-TRAP	Z601	Counter's reading is 83kHz.	(a)
(3)	**BIAS CURRENT**	(C) 1 kHz, –40 dBs 10 kHz, –40 dBs	(A)	Adjust REC and BALANCE so that the REC monitor output becomes –27 dBs at 1 kHz, then record and reproduce signal of 1 kHz and 10 kHz in alternation.	R463 (L) R464 (R)	Record 1 kHz and 10 kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	
(4)	**RECORD LEVEL**	(C) 1 kHz, –20 dBs	(A)	Record and reproduce a 1 kHz signal under the condition set in (3).	R499 (L) R500 (R)	Adjust the variable resistors so that a playback level of –7 dBs is obtained.	

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE		TYPE DE BANDE : NORMAL, DOLBY : OFF, ENTREE : LINE					
I	**TETE D'ENREGISTREMENT/LECTURE**						
[1]	**DEMAGNETISATION**	–	–	POWER : OFF Eloigner la porte.	Tête D'ENREGISTREMENT/LECTURE	Demagnétiser la tête D'ENREGISTREMENT/LECTURE avec un démagnétiseur de tête.	
[2]	**NETTOYAGE**	–	–	PLAY	Tête D'ENREGISTREMENT/LECTURE tête d'effacement, cabestan, galet-presseur.	Nettoyer la tête D'ENREGISTREMENT/LECTURE la tête d'effacement. le cabestan et le galet-presseur avec un coton-tige légèrement imbibé d'alcool.	
[3]	**AZIMUT**	MTT-256 10 kHz, –20 dBs	(A)	PLAY	Vis d'azimut	Ajuster la vis de réglage de l'azimut de façon que la tension de sortie soit maximale à la fois en avant et en arrière, de la bande d'essai.	
MOTEUR CC							
(i)	**VITESSE DE DEFILEMENT**	MTT-111 MTT-111D	(B)	PLAY	Résistance ajustable du moteur CC	Régler la vitesse de bande de façon qu'un signal de 3 kHz soit produit au centre de la bande.	
II	**PLAQUE IMPRIMEE**						
(1)	**NIVEAU DE LECTURE**	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (G) R468 (D)	Niveau de sortie : –6,5 dBs	
(2)	**OSCILLATEUR DE POLARISATION**	—	—	REC/PAUSE METAL position Connector le fréquencemètre sur TP-TRAP	Z601	La lecture au fréquencemètre est de 83kHz.	(a)
(3)	**COURANT DE POLARISATION**	(C) 1 kHz, –40 dBs 10 kHz, –40 dBs	(A)	Régler REC et BALANCE de façon que la sortie de moniteur REC soit de –27 dBs à 1 kHz, puis enregistrer et reproduire des signaux de 1 kHz et 10 kHz en alternance.	R463 (G) R464 (D)	Enregistrer un signal de 1 kHz et 10 kHz en alternance et ajuster les résistances variables qui commandent le courant de polarité de façon à obtenir le même niveau de lecture.	
(4)	**NIVEAU D'ENREGISTREMENT**	(C) 1 kHz, –20 dBs	(A)	Enregistrer et reproduire un signal de 1 kHz dans les conditions précisées en (3).	R499 (G) R500 (D)	Ajuster les résistances variables de façon à obtenir un niveau de lecture de –7 dBs.	

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK-ABTEILUNG		TAPE BANDSORTEN : NORMAL, DOLBY : OFF, EINGANG : LINE					
I	**AUFNAHME/WIEDERGABE-KOPF**						
[1]	**ENTMAGNETISIERUNG**	–	–	POWER : OFF Den Kassettenfach deckel oben herausziehen.	AUFNAHME/WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungsdrossel.	
[2]	**REINIGUNG**	–	–	PLAY	AUFNAHME/WEIDERBAGE-Kopf Löschkopf, Tonwelle, Andruckrolle	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuchteten Wattebausch reinigen.	
[3]	**AZIMUTH-EINSTELLUNG**	MTT-256 10 kHz, –20 dBs	(A)	PLAY	Azimuth-Einstellschraube	Die Azimut-Justierschraube so einstellen, daß die maximale Ausgangsspannung in Vorwärts-Reverserichtung erzielt.	
GLEICHSTROMMOTOR							
(i)	**BANDGESCHWINDIGKEIT**	MTT-111 MTT-111D	(B)	PLAY	Trimmer potentiometer am Gleichstrommotor	Die Bandgeschwindigkeit so justieren, daß ein 3 kHz Signal auf der Mitte des Bands erzeugt wird.	
II	**GEDRUCKTE SCHALTPLATTE**						
(1)	**WIEDERGABE-PEGEL**	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (L) R468 (R)	Ausgangspegel : –6,5 dBs	
(2)	**LÖSCHGENERATOR**	—	—	Aufnahme/Pause Metall position Den Frequenzzähler an TP-TRAP anschließen.	Z601	Die Zähleranzeige ist 83kHz.	(a)
(3)	**LEERLAUF-STROM**	(C) 1 kHz, –40 dBs 10 kHz, –40 dBs	(A)	REC und BALANCE so justieren, daß der REC-Monitorausgang –27 dBs bei 1 kHz wird, und danach abwechselnd Signale von 1 kHz und 10 kHz aufnehmen und wiedergeben.	R463 (L) R464 (R)	Signale von 1 kHz und 10 kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierungsstrom regeln, so justieren, daß der gleiche Wiedergabepegel erzeit wird.	
(4)	**AUFNAHMEPEGEL**	(C) 1 kHz, –20 dBs	(A)	Ein 1 kHz Signal unter den in Punkt (3) beschriebenen Bedingungen aufnehmen und reproduzieren.	R499 (L) R500 (R)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von –7 dBs erzielt wird.	

ABGLEICH

	FIG.
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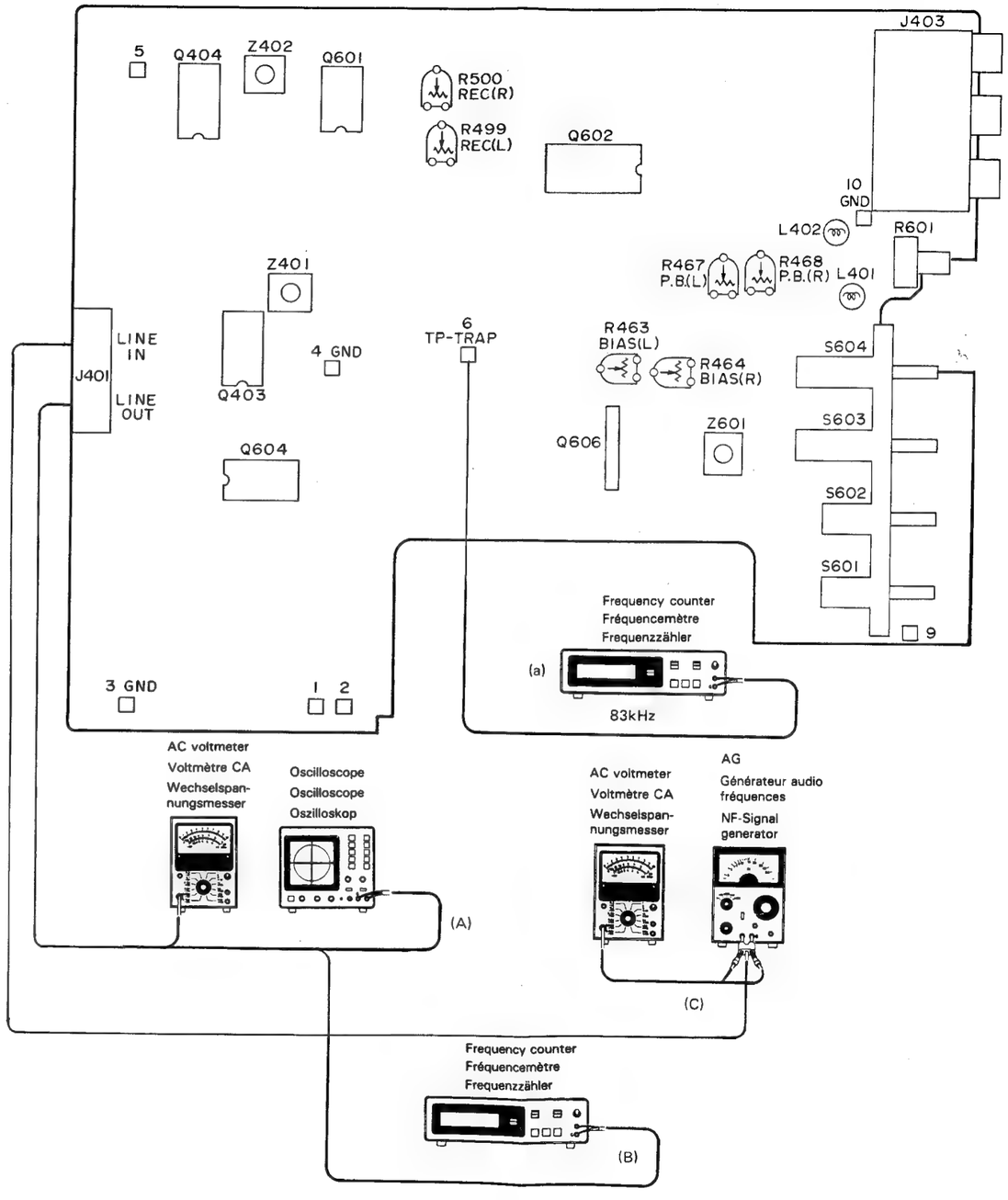
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK-ABTEILUNG		TAPE BANDSORTEN : NORMAL, DOLBY : OFF, EINGANG : LINE					
I	**AUFNAHME/WIEDERGABE-KOPF**						
[1]	**ENTMAGNETI-SIERUNG**	–	–	POWER : OFF Den Kassettenfach deckel oben herausziehen.	AUFNAHME/ WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungsdrossel.	
[2]	**REINIGUNG**	–	–	PLAY	AUFNAHME/ WEIDERBAGE-Kopf Löschkopf, Tonwelle, Andruckrolle	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuch teten Wattebausch reinigen.	
[3]	**AZIMUTH-EINSTELLUNG**	MTT-256 10 kHz, –20 dBs	(A)	PLAY	Azimuth-Einstellschraube	Die Azimut-Justierschraube so einstellen, daß die maxi-male Ausgangsspannung in Vorwärts-Reverserichtung und erzielt.	
GLEICHSTROMMOTOR							
(i)	**BANDGESCH-WINDIGKEIT**	MTT-111 MTT-111D	(B)	PLAY	Trimmer poten-tiometer am Gleichstrom-motor	Die Bandgeschwindigkeit so justieren, daß ein 3 kHz Signal auf der Mitte des Bands erzeugt wird.	
II	**GEDRUCKTE SCHALTPLATTE**						
(1)	**WIEDERGABE-PEGEL**	MTT-256 315 Hz, 0 dBs	(A)	PLAY	R467 (L) R468 (R)	Ausgangspegel : –6.5 dBs	
(2)	**LÖSCHGENERATOR**	—	—	Aufnahme/Pause Metall position Den Frequenzzähler an TP-TRAP anschließen.	Z601	Die Zähleranzeige ist 83kHz.	(a)
(3)	**LEERLAUF-STROM**	(C) 1 kHz, –40 dBs 10 kHz, –40 dBs	(A)	REC und BALANCE so justieren, daß der REC-Monitorausgang –27 dBs bei 1 kHz wird, und danach abwechselnd Signale von 1 kHz und 10 kHz aufnehmen und wiedergeben.	R463 (L) R464 (R)	Signale von 1 kHz und 10 kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierungs-strom regeln, so justieren, daß der gleiche Wieder-gabepegel erzeit wird.	
(4)	**AUFNAHMEPEGEL**	(C) 1 kHz, –20 dBs	(A)	Ein 1 kHz Signal unter den in Punkt (3) beschriebenen Bedingungen aufneh-men und reproduzieren.	R499 (L) R500 (R)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von –7 dBs erzielt wird.	

ADJUSTMENT/REGLAGE/ABGLEICH



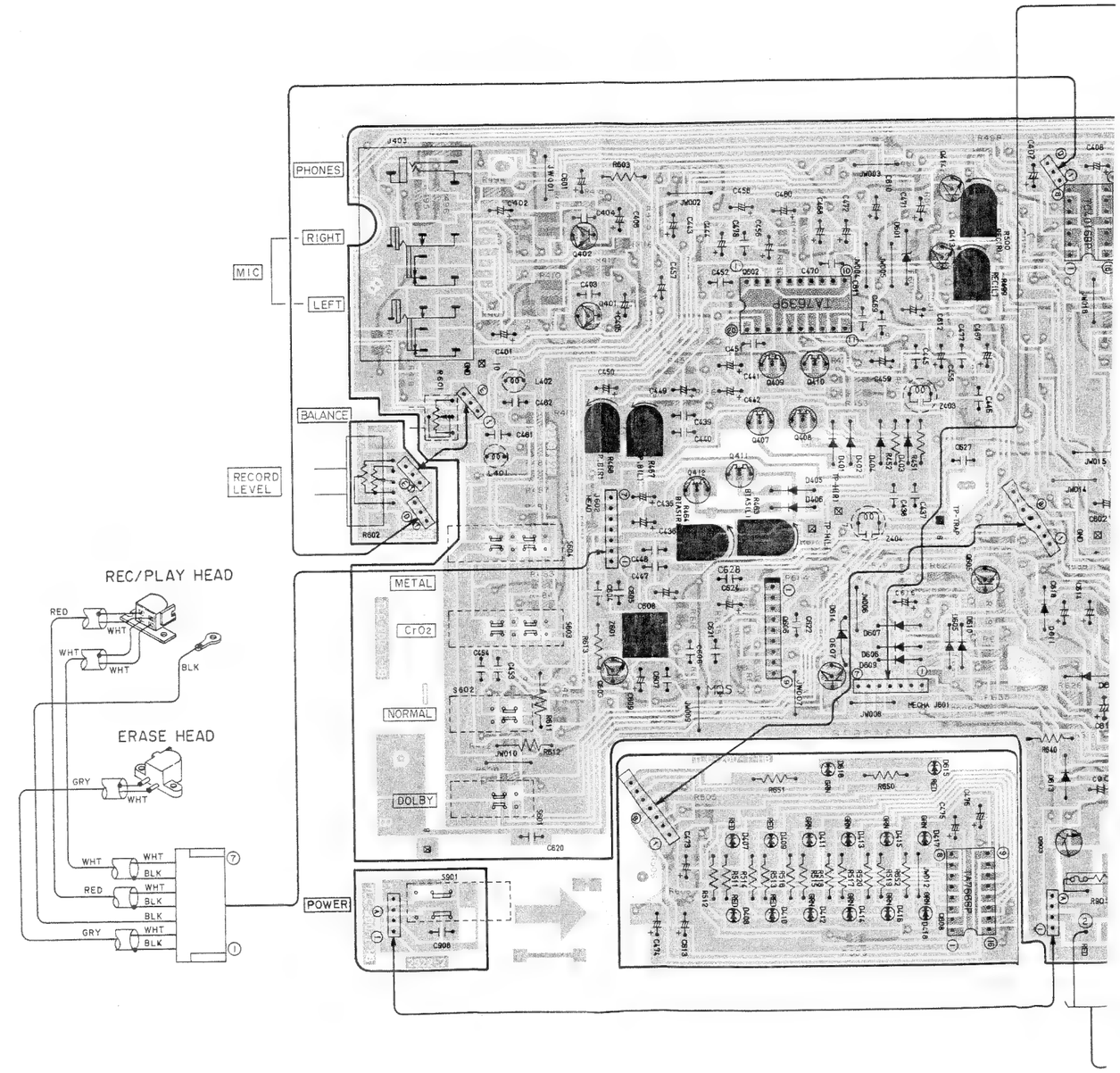
	Pin	Voltage
Q401	E	0V
	C	5.5V
	B	0.6V
Q402	E	0V
	C	5.5V
	B	0.6V
Q403	1	11.3V
	2	5.7V
	3	0V
	4	5.5V
	5	5.7V
	6	5.7V
	7	REC : 0V OTHERS : 3.0V
	8	5.6V
	9	5.6V
	10	5.7V
	11	DOLBY ON : 5.1V OTHERS : 10.5V
	12	5.8V
	13	5.9V
	14	5.7V
	15	6.0V
	16	9.4V
Q404	1	11.3V
	2	5.7V
	3	0V
	4	5.5V
	5	5.7V
	6	5.7V
	7	REC : 0V OTHERS : 3.0V
	8	5.6V
	9	5.6V
	10	5.7V
	11	DOLBY ON : 5.1V OTHERS : 10.5V
	12	5.8V
	13	5.9V
	14	5.7V
	15	6.0V
	16	9.4V
Q407	G	–
	D	5.5V
	S	5.5V
Q408	G	–
	D	5.5V
	S	5.5V
Q409	G	REC : 6.0V OTHERS : 0V
	D	–
	S	–

	Pin	Voltage
Q410	G	REC : 6.0V OTHERS : 0V
	D	–
	S	–
Q412	G	–
	D	5.5V
	S	5.5V
Q413	B	REC : 0V OTHERS : 6.4V
	C	5.5V
	E	5.5V
Q414	B	REC : 0V OTHERS : 6.4V
	C	5.5V
	E	5.5V
Q602	1	4.8V
	2	5.6V
	3	5.8V
	4	11.3V
	5	5.6V
	6	5.8V
	7	5.9V
	8	5.6V
	9	6.2V
	10	11.3V
	11	0V
	12	6.2V
	13	5.6V
	14	5.9V
	15	5.8V
	16	5.6V
	17	5.7V
	18	5.8V
	19	5.6V
	20	4.8V
Q603	B	PLAY : 0V N : 0.4V C : 0.3V M : 0V
	C	PLAY : 12.0V N : 5.1V C : 7.0V M : 12.0V
	E	PLAY : 0V N : 0.2V C : 0.2V M : 0.3V
	1	REC : 7.2V PLAY : 7.8V OTHERS : 0V
	2	REC : 0.6V PLAY : 1.9V OTHERS : 0V

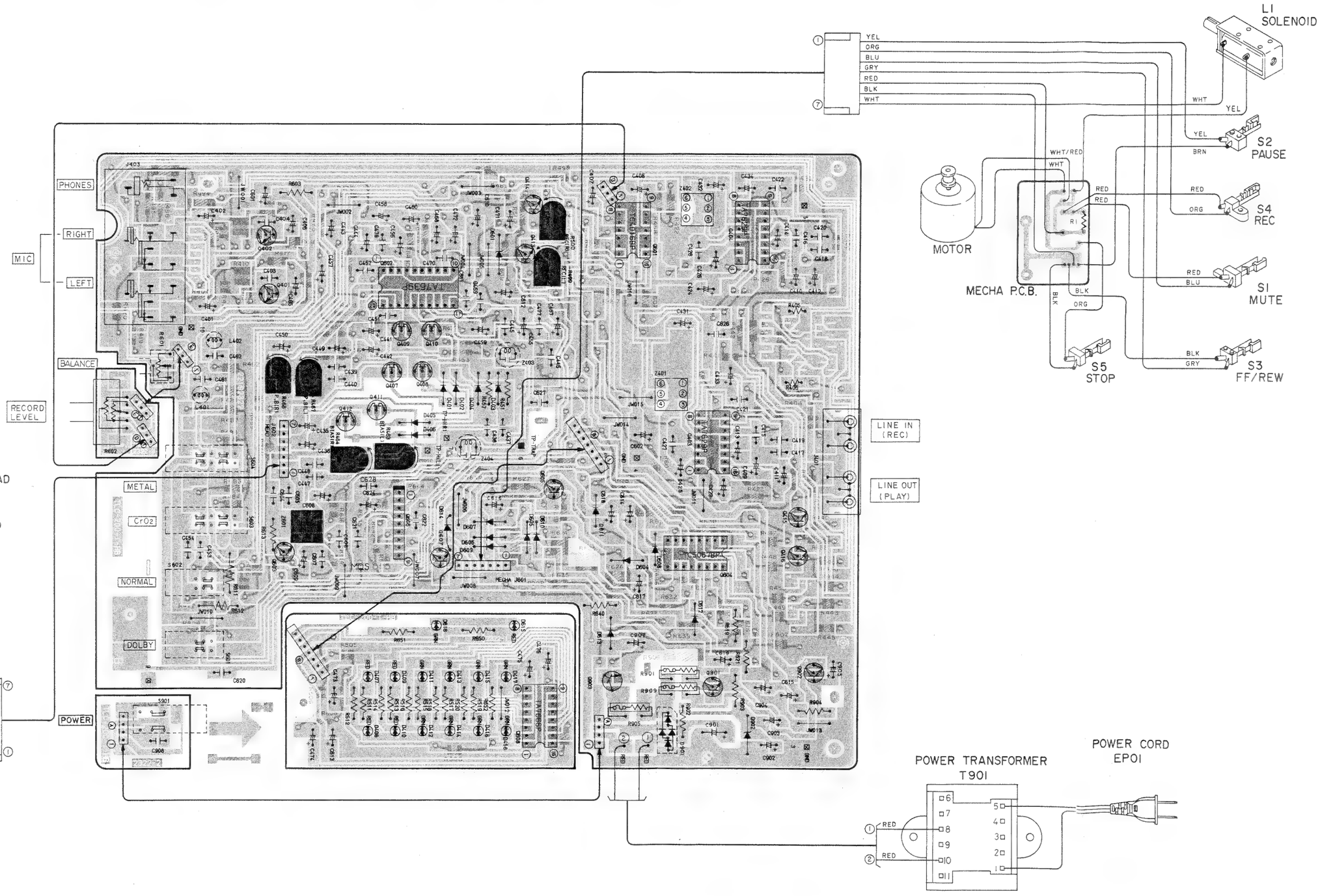
	Pin	Voltage
Q604	3	FF/REW (CUE, REVIEW) : 0.4V REC : 5V OTHERS : 4V
	4	0V
	5	REC : 0V OTHERS : 8.7V
	6	REC : 9.2V OTHERS : 0V
	7	REC : 7.8V OTHERS : 0V
	8	0V
	9	REC : 0V OTHERS : 12.0V
	10	REC : 0V OTHERS : 12.0V
	12	12.0V
	13	REC/PLAY : 0V OTHERS : 11.5V
	14	PLAY : 0V OTHERS : 12.0V
	15	REC/PLAY : 0V OTHERS : 11.5V
	16	12.0V
Q605	B	PLAY, REC, PLAY-P, REC-P : 10.7V CUE, REVIEW : 10.2V OTHERS : 0V
	C	CUE, REVIEW : 11.0V OTHERS : 0V
	E	PLAY, REC, PLAY-P, REC-P : 11.0V OTHERS : 0V
Q606	1	CUE, REVIEW : 6.6V OTHERS : 0V
	2	CUE, REVIEW : 1.3V OTHERS : 0V
	3	CUE, REVIEW : 0.7V OTHERS : 0V
	4	0.7V
	5	0V
	6	1.2V
	7	CUE, REVIEW → PLAY : 1.1V OTHERS : 0V
	8	CUE, REVIEW → PLAY : 0V OTHERS : 0V
	9	12.0V
Q608	1	1.4V
	2	1.4V
	3	OFF : 9.9V ON : 0.6V

	Pin	Voltage
Q608	4	OFF : 9.9V ON : 0.6V
	5	OFF : 9.9V ON : 0.6V
	6	OFF : 9.9V ON : 0.6V
	7	OFF : 9.9V ON : 0.6V
	8	0V
	9	11.3V
	10	OFF : 9.9V ON : 0.6V
	11	OFF : 9.9V ON : 0.6V
	12	OFF : 9.9V ON : 0.6V
	13	OFF : 9.9V ON : 0.6V
	14	OFF : 9.9V ON : 0.6V
	15	1.4V
	16	1.4V
Q901	B	12.7V
	C	18.0V
	E	11.3V
Q902	B	12.0V
	C	18.0V
	E	11.3V
Q903	B	12.0V
	C	18V
	E	11.5V

PC BOARD



PC BOARD

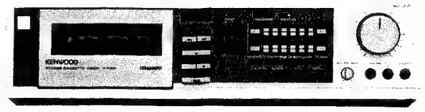


Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

KENWOOD

STEREO CASSETTE DECK

KX-32/B



SPECIFICATIONS

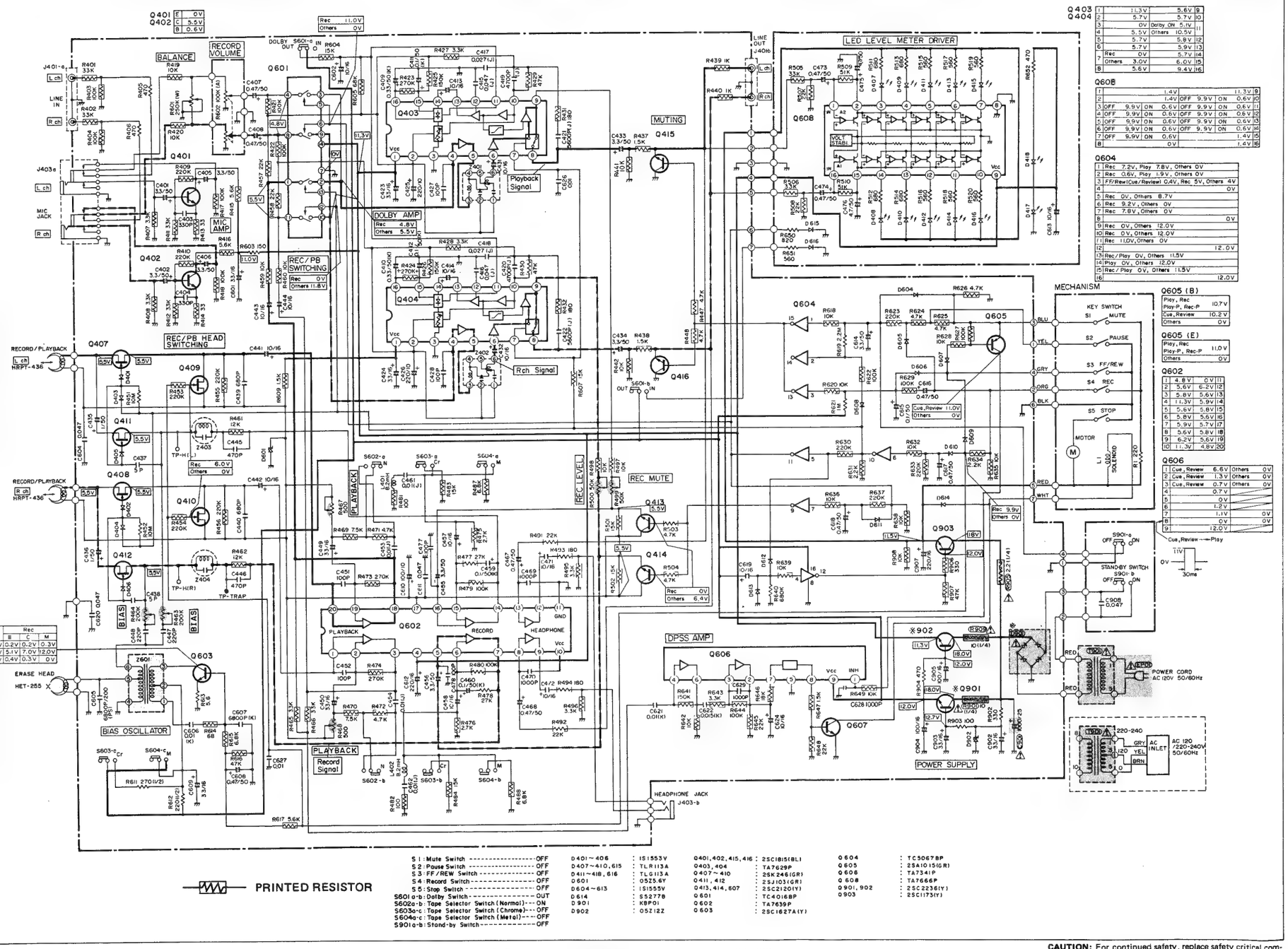
Type	Stereo cassette deck with Dolby B NR system and direct program search system
Track System	4-track, 2-channel stereo/mono recording/playback
Recording System	AC bias system (Bias frequency: 85 kHz)
Erasing System	AC system
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Record and playback head x 1 (Hard permalloy head) Erase head x 1 (Double gap ferrite head)
Motor	Electronically controlled DC motor
Fast Winding Time	Approx. 100 seconds with C-60 tape
Frequency Response:	
Normal Tape	20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ± 3 dB)
CrO2 Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ± 3 dB)
Metal Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ± 3 dB)
Signal-to-Noise Ratio:	
Dolby NR ON	64 dB (Metal tape)
Dolby NR OFF	56 dB (Metal tape)
Harmonic Distortion	Less than 0.9% (at 1 kHz, 0 VU with Normal tape)
Wow and Flutter	0.055% (W.R.M.S.)
Input Sensitivity/Impedance:	
LINE x 2	70 mV/50 kohms
Microphones x 2	0.5 mV/3.3 kohms
Output Level/Load Impedance:	
LINE x 2	360 mV (0 VU)/2.7 kohms
Headphones x 1	0.1 mW/8 ohms
Power Requirements	AC 120V, 60 Hz: U.S.A. and Canada models AC 120V/220-240V (Switchable), 50/60 Hz: Other countries
Power Consumption	11 watts (U.S.A. and Canada) 14 watts (Others)
Dimensions	W: 420 mm (16-17/32") H: 112 mm (4-13/32") D: 278 mm (10-15/16")
Weight	3.5 kg (7.7 lb)
Supplied Accessories	Audio connection cable x 2 Head cleaning set x 1
Reference Tapes	Normal: KENWOOD ND/ND-X60, TDK AD/AD-X60 CrO2: KENWOOD CD-60, TDK SA-60 Metal: KENWOOD MD-60, TDK MA-R-60

Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.
La marque DOLBY et le double "D" sont des marques dépo sées des Dolby Laboratories.
Le système de réduction du bruit de fond est fabriqué sous license des Dolby Laboratories.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.
DOLBY und Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratories.
Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

- DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individues. Les tensions c.c. du circuit de polarité doivent être mesurées. l'appareil étant en mode d'enregistrement.
- Die angegeben Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügg. Die angegeben Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

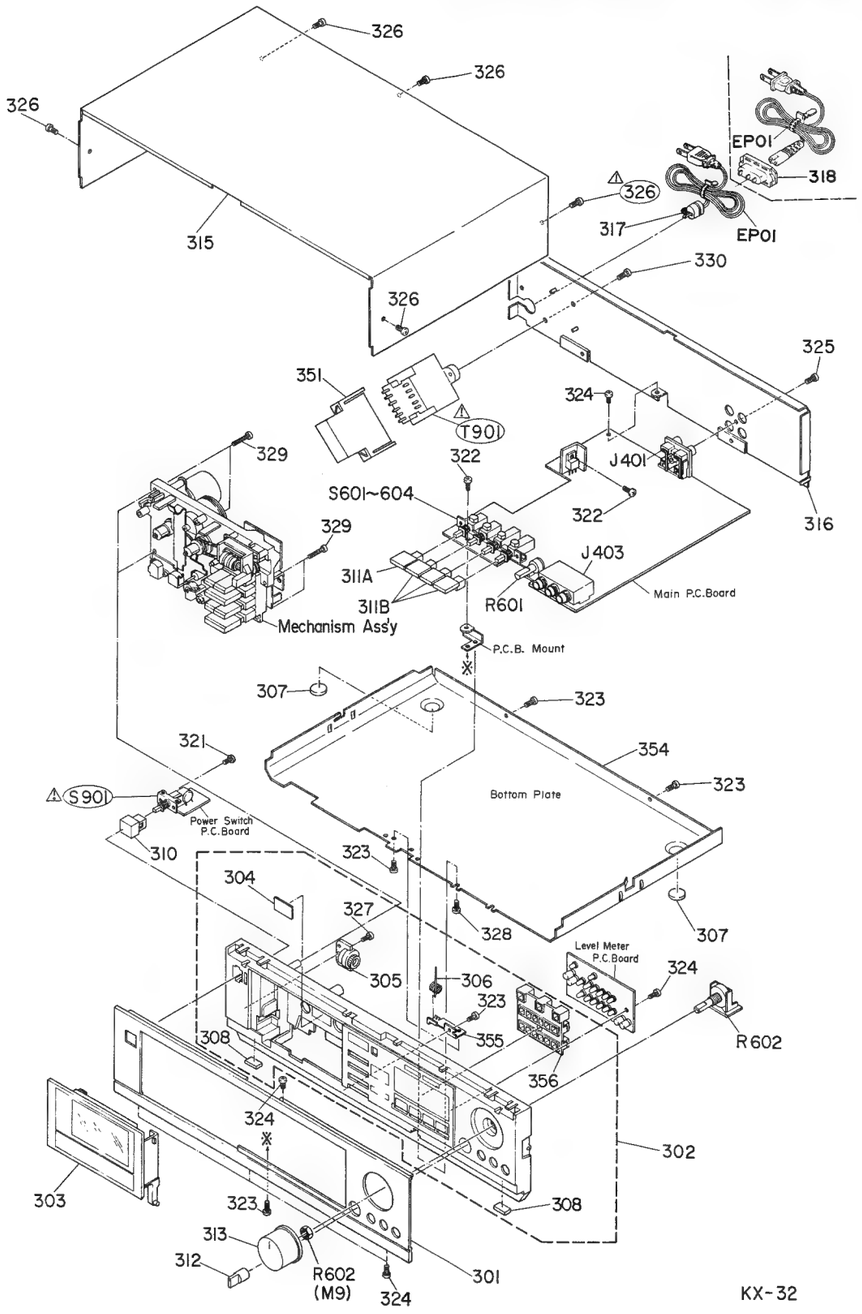


S1 : Mute Switch	OFF	D401~406	: IS1553V	Q401,402,415,416	: 2SC1815(BL)	Q604	: TC5067BP
S2 : Pause Switch	OFF	D407~410,615	: TLR113A	Q403,404	: TA7629P	Q605	: 2SA1015(GR)
S3 : FF/REW Switch	OFF	D411~418,616	: TLG113A	Q407~410	: 2SK246(GR)	Q606	: TA7341P
S4 : Record Switch	OFF	D601	: 0S2S.6Y	Q411,412	: 2SJ103(GR)	Q608	: TA7666P
S5 : Stop Switch	OFF	D604~613	: IS1555V	Q413,414,607	: 2SC2120(Y)	Q901,902	: 2SC2236(Y)
S601a-b : Dolby Switch	OUT	D614	: S52778	Q601	: TC4016BP	Q903	: 2SC1173(Y)
S602a-b : Tape Selector Switch (Normal)	ON	D901	: KBP01	Q602	: TA7639P		
S603a-c : Tape Selector Switch (Chrome)	OFF	D902	: 05Z12Z	Q603	: 2SC1627A(Y)		
S604a-c : Tape Selector Switch (Metal)	OFF						
S901a-b : Stand-by Switch	OFF						

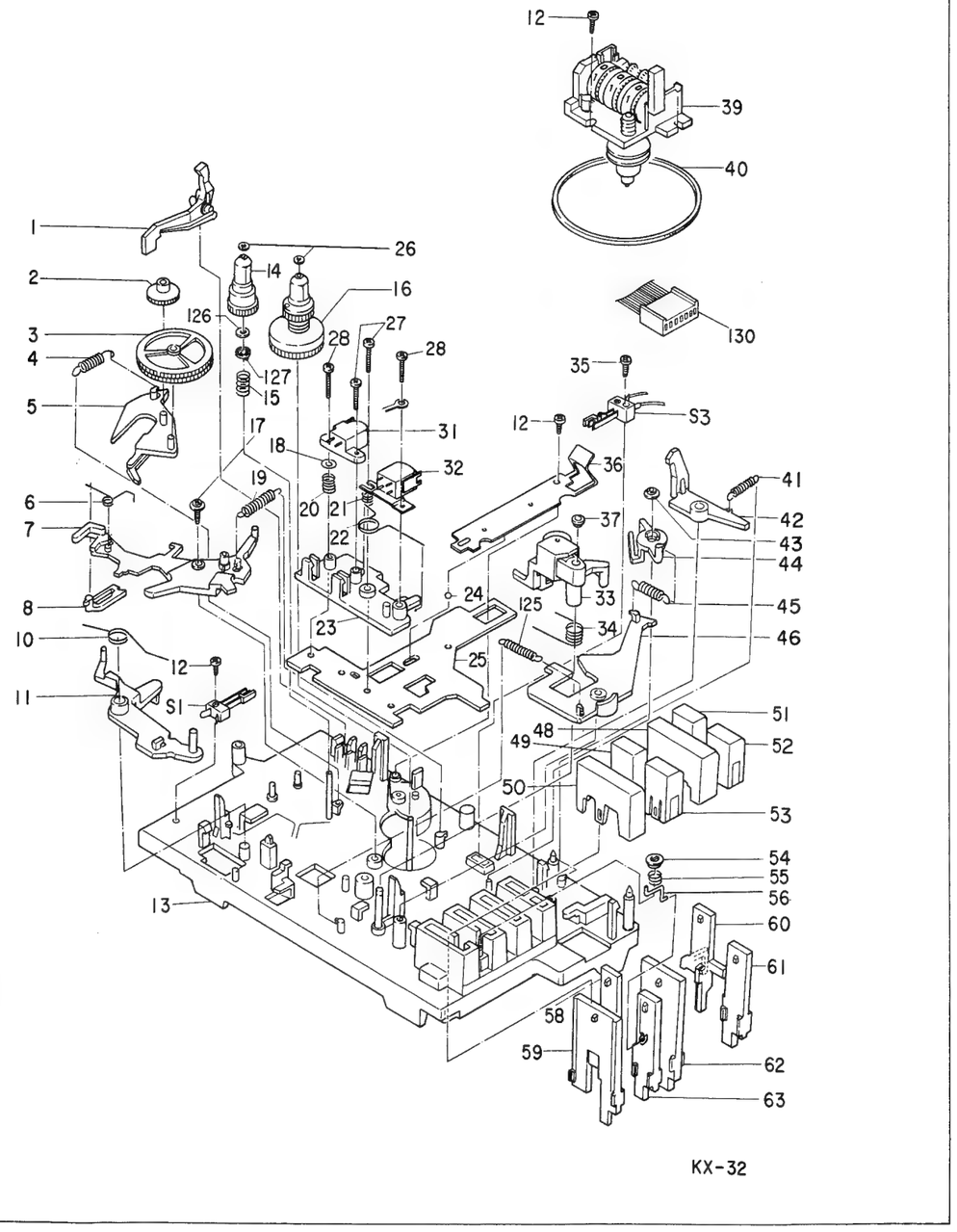
2SA1015 2SC1815 2SC2120 — 2SC1627A 2SC2236 — 2SC1173 2SD880 — 2SJ103 — 2SK246 — TC4016BP — TA7629P TA7666P TC5067BP — TA7639P

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

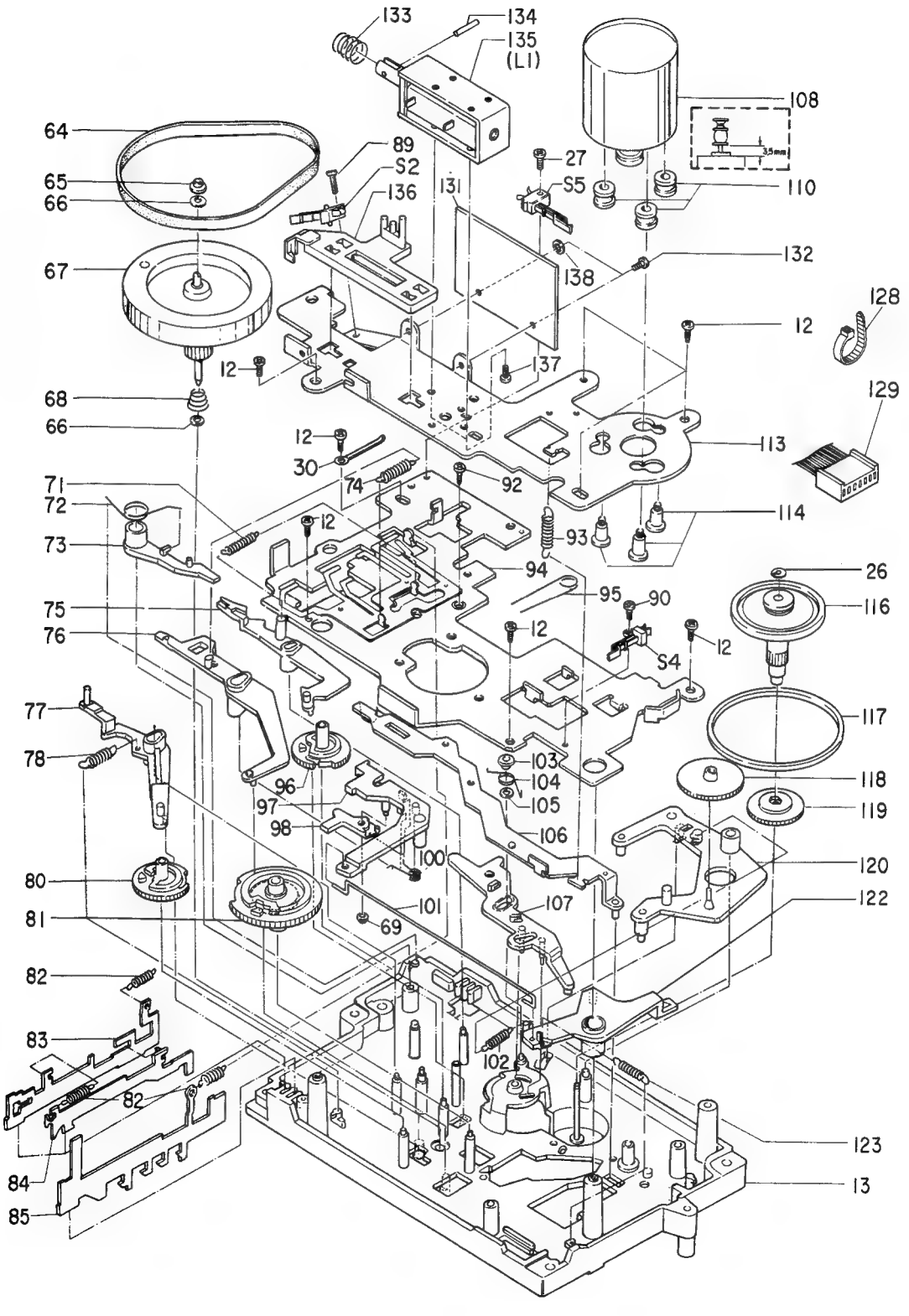
EXPLODED VIEW



EXPLODED VIEW (MECHANISM) (1)



EXPLODED VIEW (MECHANISM) (2)



PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KX-32			
301	3B	*	95829517	FRONT PANEL		
301	3B	*	95829541	FRONT PANEL (KX-32B)		
302	3B	*	95839307	SUB PANEL	PUUEE	
302	3B	*	95839307	SUB PANEL	TXM	
302	3B	*	95839320	SUB PANEL	K	
303	3A	*	95832796	CASSETTE HOLDER	T	
303	3A	*	95832803	CASSETTE HOLDER	KPUUE	
303	3A	*	95832803	CASSETTE HOLDER	EXM	
303	3A	*	95832848	CASSETTE HOLDER (KX-32B)	KPUUE	
303	3A	*	95832848	CASSETTE HOLDER (KX-32B)	XEM	
303	3A	*	95832849	CASSETTE HOLDER (KX-32B)	T	
304	3A	*	95808372	REFRECTOR		
305	3A	*	95881493	DAMPER ASSY		
306	3B	*	95775234	EJECT SPRING		
307	2A,3B	*	95762432	FOOT		
308	3A,3B	*	92758390	CUSHION (FOOT)		
310	2A	*	95816736	KNOB ASSY (POWER)		
311A	2A	*	95886073	KNOB (DOLBY)		
311B	2A	*	95886074	KNOB (PUSH)X3		
311B	2A	*	95886121	KNOB (PUSH)X4 (KX-32B)		
312	3A	*	95886009	KNOB (BALANCE)		
312	3A	*	95886124	KNOB (BALANCE)(KX-32B)		
313	3A	*	95837997	KNOB (REC)		
313	3A	*	95886139	KNOB (REC) (KX-32B)		
315	1A	*	95864241	TOP COVER		
315	1A	*	95864328	TOP COVER (KX-32B)		
317	1B	*	95845528	CORD BUSHING	KP	
⚠ 318	1B	*	92169037	AC INLET	UUEET	
⚠ 318	1B	*	92169037	AC INLET	XM	
321	2A	*	92707461	SCREW (2.6X8) BID		
322	2B	*	92707066	SCREW (3X6) BID		
323	2A,2B	*	92707842	SCREW (3X8) BID		
324	3A,3B	*	92707826	SCREW (3X10) BID		
325	1B	*	92707165	SCREW (3X10) BID		
326	1A,1B	*	92707886	SCREW (3X10) BID		
327	3A	*	92707802	SCREW (3X12) BID		
328	3B	*	92707835	SCREW (3X16) BID		
329	1A,2A	*	92707843	SCREW (3X16) BID		
330	1B	*	92708046	SCREW (4X12) BID		
351	1A	*	95854502	TRANS COVER		
355	3B	*	95864160	CASSETTE HOLDER MOUNT HARDWARE		
356	3B	*	95832784	METER CASE (R)		
-			92957597	WARRANTY CARD	K	
-			92957598	WARRANTY CARD	P	
-			92957599	WARRANTY CARD	UUE	
-			92957600	WARRANTY CARD	UUE	
-			92957601	WARRANTY CARD	X	
-			92957602	WARRANTY CARD	T	
-			92957603	WARRANTY CARD	E	
-	2A	*	95709015	MECHANISM ASSY		
ACO1		*	92904094	INSTRUCTION MANUAL (E)	KPUUE	
ACO1		*	92904094	INSTRUCTION MANUAL (E)	XM	
ACO1		*	92904095	INSTRUCTION MANUAL (F)	PEXM	

E: Scandinavia & Europe **H**:Audio Club **K**: USA **P**: Canada
S: South Africa **T**: England **U**: PX(Far East, Hawaii)
UE: AAFES(Europe) **X**: Australia **M**: Other Areas

⚠ indicates safety critical components.

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ACO1		*	92904096	INSTRUCTION MANUAL (G)	E	
ACO1		*	92904097	INSTRUCTION MANUAL (E)	T	
ACO1		*	92904098	INSTRUCTION MANUAL (SP)	M	
ACO2		*	92164775	AUDIO CORD		
ACO3		*	92990756	HEAD CLEANER		
⚠ EPO1		*	92176644	AC POWER CORD	KP	
⚠ EPO1		*	92176649	AC POWER CORD	E	
⚠ EPO1		*	92176662	AC POWER CORD	X	
⚠ EPO1		*	92176680	AC POWER CORD	UEUM	
⚠ EPO1		*	92176682	AC POWER CORD	T	
PKO1		*	92921100	ITEM CARTON BOX	T	
PKO1		*	92921101	ITEM CARTON BOX	KPUUE	
PKO1		*	92921101	ITEM CARTON BOX	EXM	
PKO1		*	92921250	ITEM CARTON BOX (KX-32B)	T	
PKO1		*	92921251	ITEM CARTON BOX (KX-32B)	KPUUE	
PKO1		*	92921251	ITEM CARTON BOX (KX-32B)	EXM	
PKO2		*	92933519	POLYSTYRENE FIXTURE (L)		
PKO3		*	92933520	POLYSTYRENE FIXTURE (R)		
PKO4		*	92941302	POLY BAG (POWER CORD)	KP	
PKO5		*	92941312	POLY BAG		
PKO6		*	92941323	POLY BAG		
⚠ T901	2B	*	92224155	POWER TRANSFORMER	K	
⚠ T901	2B	*	92224156	POWER TRANSFORMER	P	
⚠ T901	2B	*	92224258	POWER TRANSFORMER	UUEET	
⚠ T901	2B	*	92224258	POWER TRANSFORMER	XM	

ELECTRIC PARTS

C401,402			CEO4W1H3R3M	ELECTRO	3.3UF	50WV	
C403,404			CK45B1H331K	CERAMIC	330PF	K	
C405,406			CEO4W1H3R3M	ELECTRO	3.3UF	50WV	
C407,408			CEO4W1HR47M	ELECTRO	0.47UF	50WV	
C409,410			CEO4W1HR33K	ELECTRO	0.33UF	50WV	
C411,412			CEO4W1HR10K	ELECTRO	0.10UF	50WV	
C413,414			CEO4W1C100M	ELECTRO	10UF	16WV	
C415,416			CQ92M1H473J	MYLAR	0.047UF	J	
C417,418			CQ92M1H273J	MYLAR	0.027UF	J	
C419,420			CQ92M1H472J	MYLAR	4700PF	J	
C421,422			CQ92M1H562J	MYLAR	5600PF	J	
C423,424			CEO4W1C330M	ELECTRO	33UF	16WV	
C425,426			CEO4W1A221M	ELECTRO	220UF	10WV	
C427,428			CC45SL1H101K	CERAMIC	100PF	K	
C431,432			CEO4W1C100M	ELECTRO	10UF	16WV	
C433,434			CEO4W1H3R3M	ELECTRO	3.3UF	50WV	
C435,436			CEO4W1H1R0M	ELECTRO	1.0UF	50WV	
C437,438			CC45SL1H5R0D	CERAMIC	5.0PF	D	
C439,440			CK45B1H681K	CERAMIC	680PF	K	
C441-444			CEO4W1C100M	ELECTRO	10UF	16WV	
C445,446			CK45B1H471K	CERAMIC	470PF	K	
C447,448			CK45B1H221K	CERAMIC	220PF	K	
C449,450			CEO4W1C330M	ELECTRO	33UF	16WV	
C451,452			CC45SL1H101K	CERAMIC	100PF	K	
C453,454			CQ92M1H103J	MYLAR	0.010UF	J	
C455,456			CEO4W1H3R3M	ELECTRO	3.3UF	50WV	
C457,458			CEO4W1C100M	ELECTRO	10UF	16WV	
C459,460			CEO4W1HR10K	ELECTRO	0.10UF	50WV	
C461,462			CQ92M1H103J	MYLAR	0.010UF	J	

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C467,468			CE04W1HR47M	ELECTRO 0.47UF 50WV		
C469,470			CK45B1H102K	CERAMIC 0.001UF K		
C471,472			CE04W1C100M	ELECTRO 10UF 16WV		
C473,474			CE04W1HR47M	ELECTRO 0.47UF 50WV		
C475,476			CE04W1H4R7M	ELECTRO 4.7UF 50WV		
C477,478			CC45SL1H101K	CERAMIC 100PF K		
C601			CE04W1C330M	ELECTRO 33UF 16WV		
C602			CE04W1C100M	ELECTRO 10UF 16WV		
C604			CK45F1H473Z	CERAMIC 0.047UF Z		
C605			CQ09S2D682J	POLYSTY 6800PF J		
C606			CQ92M1H103K	MYLAR 0.01UF K		
C607			CQ92M1H682K	MYLAR 0.0068UF K		
C608			CE04W1HR47M	ELECTRO 0.47UF 50WV		
C609			CE04W1C330M	ELECTRO 33UF 16WV		
C610			CE04W1A101M	ELECTRO 100UF 10WV		
C611			CK45F1H473Z	CERAMIC 0.047UF Z		
C612			CE04W1C221M	ELECTRO 220UF 16WV		
C613			CE04W1C100M	ELECTRO 10UF 16WV		
C614			CE04W1H3R3M	ELECTRO 3.3UF 50WV		
C615			CE04W1HR10K	ELECTRO 0.10UF 50WV		
C616-618			CE04W1HR47M	ELECTRO 0.47UF 50WV		
C619			CE04W1C100M	ELECTRO 10UF 16WV		
C620			CK45F1H473Z	CERAMIC 0.047UF Z		
C621			CQ92M1H103K	MYLAR 0.01UF K		
C622			CQ92M1H153K	MYLAR 0.015UF K		
C624			CE04W1C100M	ELECTRO 10UF 16WV		
C626,627			CK45F1H103Z	CERAMIC 0.01UF Z		
C628,629			CK45B1H102K	CERAMIC 0.001UF K		
⚠ C901			CE04W1E102M	ELECTRO 1000UF 25WV		
C902,903			CE04W1C330M	ELECTRO 33UF 16WV		
C904,905			CE04W1C101M	ELECTRO 100UF 16WV		
C907			CE04W1C221M	ELECTRO 220UF 16WV		
C908			CK45F1H473Z	CERAMIC 0.047UF Z		
J401	2B		92163887	PHONO JACK		
J403	2B		92163948	PHONE JACK		
L401,402			92232278	COIL		
Z401,402			92153278	FILTER		
Z403,404			92153229	COIL		
Z601			92235231	OSCILLATING COIL		
R463,464			92658719	TRIM POT. 200K BIAS		
R467,468			92658715	TRIM POT. 500 PLAYBACK LEVEL		
R499,500			92658718	TRIM POT. 50K REC LEVEL		
R601	2B		92620054	POTENTIOMETER 250K REC BALANCE		
R602	3B		92651588	POTENTIOMETER 100K REC LEVEL		
R611			RD14BY2H271J	RD 270 J 1/2W		
R612			RD14BY2H221J	RD 220 J 1/2W		
⚠ R901			92500278	FUSE RESIST 10 J 1/4W		
⚠ R905			92500272	FUSE RESIST 2.2 J 1/4W		
⚠ R909			92500278	FUSE RESIST 10 J 1/4W		
S601-604	2B		92196286	PUSH SWITCH		
⚠ S901	2A		92196058	PUSH SWITCH POWER		
D401-406			1S1553V	DIODE		
D407-410			TLR113A	LED		

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D411-418			TLG113A	LED		
D601			05Z5.6Y	ZENER DIODE		
D604-613			1S1555V	DIODE		
D614			S5277B	DIODE		
D615			TLR113A	LED		
D616			TLG113A	LED		
⚠ D901			KBP01	DIODE	KPUUE	
⚠ D901			KBP01	DIODE	XM	
⚠ D901			KBP01-E	DIODE	T	
D902			05Z12Z	ZENER DIODE		
Q401,402			2SC1815(BL)	TRANSISTOR		
Q403,404			TA7629P	IC		
Q407-410			2SK246(GR)	FET		
Q411,412			2SJ103(GR)	FET		
Q413,414			2SC2120(Y)	TRANSISTOR		
Q415,416			2SC1815(BL)	TRANSISTOR		
Q601			TC4016BP	IC		
Q602			TA7639P	IC		
Q603			2SC1627A(Y)	TRANSISTOR		
Q604			TC5067BP	IC		
Q605			2SA1015(GR)	TRANSISTOR		
Q608			TA7666P	IC		
Q901			2SC2236(Y)	TRANSISTOR	KP	
Q901,902			2SD880(Y)	TRANSISTOR	UUEET	
Q902			2SD880(Y)	TRANSISTOR	KP	
Q903			2SC1173(Y)	TRANSISTOR		
MECHANISM						
1	1C	*	95782511	LEVER (REC)		
2	1C	*	95759280	GEAR (REW)		
3	2C	*	95756279	GEAR (FF)		
4	2C	*	95776432	SPRING		
5	2C	*	95782509	LEVER (HI-SPEED)		
6	2C	*	95778013	SPRING (REW)		
7	2C	*	95782507	LEVER (HI-SPEED)		
8	2C	*	95783266	SLIDER (REW)		
10	2C	*	95778008	SPRING (PLAY LEVER)		
11	2C	*	95782505	LEVER (PLAY DRIVE)		
12	2C,2D	*	92707301	SCREW (2.6X8) BID		
13	3C,3F	*	95791505	MAIN CHASSIS ASSY		
14	1C	*	95754402	SUPPLY REEL (DRAM)		
15	2C	*	95777177	SPRING		
16	1C	*	95712409	REEL PLATE ASSY (TAKE-UP)		
17	2C	*	92707825	SCREW (2.6X6) TPAN		
18	2C	*	92703281	WASHER (2.6)		
19	2C	*	95776431	SPRING		
20	2C	*	95772579	SPRING (ERASE)		
21	2C	*	95777056	SPRING (AZIMUTH)		
22	2C	*	95778007	SPRING (HEAD SLIDER)		
23	2C	*	95783265	HEAD MOUNT		
24	2D	*	95757129	STEEL BALL (2)		
25	2D	*	95741922	HEAD SLIDER		
26	1C,2F	*	95766050	WASHER		
27	1C,1F	*	92707322	SCREW (2X10) DTBID		
28	2C	*	92707669	SCREW (2X12) DTBID		
30	2E	*	92184188	WIRE HOLDER (BLK)		
31	2D	*	92218255	ERASE HEAD (HET-255)		

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32	2D	*	92217436	RECORD HEAD (HRPT-436)		
33	2D	*	95717516	PINTCH ROLLER		
34	2D	*	95778006	SPRING		
35	2D	*	92707303	SCREW (2.6X10) BID		
36	2D	*	95779240	SPRING (HOLDER)		
37	2D	*	95783260	BUSH		
39	1D	*	95873267	COUNTER		
40	1D	*	95755529	BELT (COUNTER)		
41	2D	*	95776436	SPRING		
42	2D	*	95782512	LEVER (LOCK HOLDER)		
43	2D	*	95783195	BUSH		
44	2D	*	95782510	LEVER (ASO PAUSE)		
45	2D	*	95776418	SPRING		
46	2D	*	95782506	LEVER (PAUSE DRIVE)		
48	2D	*	95816730	BUTTON (PLAY)		
49	2D	*	95816734	BUTTON (REC)		
50	3D	*	95816735	BUTTON (STOP)		
51	2D	*	95816732	BUTTON (REW)		
52	2D	*	95816731	BUTTON (FF)		
53	3D	*	95816733	BUTTON (PAUSE)		
54	3D	*	95783279	BUSH		
55	3D	*	95777097	SPRING		
56	3D	*	95775231	WIRE (PAUSE LOCK)		
58	3D	*	95783271	SPRING (REC)		
59	3D	*	95783272	SPRING (STOP)		
60	3D	*	95783269	SPRING (REW)		
61	3D	*	95783268	SLIDER (FF)		
62	3D	*	95783267	SLIDER (PLAY)		
63	3D	*	95783270	SLIDER (PAUSE)		
64	1E	*	95755527	BELT (DRIVE)		
65	1E	*	95725340	BEARING		
66	1E	*	95766089	WASHER		
67	1E	*	95717517	FLYWHEEL ASSY		
68	1E	*	95777108	SPRING (FLYWHEEL)		
69	3E	*	95783199	WASHER		
71	2E	*	95776564	SPRING		
72	2E	*	95778012	SPRING (ASO LEVER)		
73	2E	*	95782521	ASO LEVER		
74	2E	*	95776437	SPRING		
75	2E	*	95782514	LEVER (FF)		
76	2E	*	95782513	LEVER (PLAY)		
77	2E	*	95782515	LEVER (PAUSE)		
78	2E	*	95776420	SPRING		
80	2E	*	95756282	CAM GEAR (PAUSE)		
81	3E	*	95756281	CAM GEAR (PLAY)		
82	3E	*	95776417	SPRING		
83	3E	*	95741924	SWITCH SLIDER		
84	3E	*	95741925	EJECT SLIDER		
85	3E	*	95741923	LOCK SLIDER		
89	1E	*	95707169	SCREW (2.6X10) BID		
90	2F	*	92707426	SCREW (2X5) DTBID		
92	2E	*	92707299	SCREW (2X8) BID		
93	2F	*	95776445	SPRING		
94	2F	*	95734472	SUB PLATE ASSY		
95	2F	*	95778014	SPRING (REW)		

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96	2E	*	95756283	CAM GEAR (FF)		
97	2E	*	95782516	LEVER (STOP)		
98	2E	*	95782522	LEVER (PLAY,STOP)		
100	2E	*	95778015	SPRING		
101	3E	*	95775232	WIRE (LOCK)		
102	3E	*	95776419	SPRING		
103	2F	*	95783226	BUSH		
104	2F	*	95778011	SPRING (DETECT)		
105	2F	*	95766073	WASHER (AS0)		
106	2F	*	95717518	SLIDER ASSY (REW)		
107	3F	*	95782520	LEVER (AS0 DET.)		
108	1F	*	95791637	MOTOR ASSY		
110	1F	*	95761238	CUSHION ASSY		
113	2F	*	95736981	MOTOR MOUNT HARDWARE		
114	2F	*	92707429	SCREW (2.6X1.8X4.9)		
116	2F	*	95713559	INTERMEDIATE PULLEY		
117	2F	*	95755528	BELT (INTERMEDIATE PULLEY)		
118	2F	*	95756284	GEAR (REW)		
119	2F	*	95756285	GEAR (HI-SPEED)		
120	2F	*	95782519	LEVER (REW)		
122	2F	*	95782517	LEVER (REC BIAS)		
123	3F	*	95776561	SPRING		
125	2D	*	95776431	SPRING		
126	1C	*	95764597	WASHER		
127	2C	*	95754441	SPACER (BACK TENSION)		
128	1F	*	92184221	WIRE BAND		
129	1F	*	98702494	6P SOCKET ASSY		
130	1D	*	98702495	7P SOCKET ASSY		
131	1E	*	92192381	PC BOARD		
132	1F	*	92707366	SCREW (2.6X6) DIBID		
133	1F	*	95777276	SPRING (SOLENOID)		
134	1F	*	92707183	SPRING PIN		
135	1F	*	92147258	SOLENOID COIL		
136	1E	*	95783293	SEARCH SLIDER		
137	1F	*	92701389	SCREW (2.6X3) BID		
138	1F	*	74020026	WASHER (2.6)		

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SPECIFICATIONS

Type..... Stereo cassette deck with Dolby B NR system and direct program search system
Track System..... 4-track, 2-channel stereo/mono, recording/playback
Recording System..... AC bias system (Bias frequency: 85 kHz)
Erasing System..... AC system
Tape Speed..... 4.76 cm/sec (1-7/8 ips)
Heads..... Record and playback head × 1 (Hard permalloy head)
Erase head × 1 (Double gap ferrite head)
Motor..... Electronically controlled DC motor
Fast Winding Time..... Approx. 100 seconds with C-60 tape
Frequency Response:
Normal Tape..... 20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ± 3 dB)
CrO_2 Tape..... 20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ± 3 dB)
Metal Tape..... 20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ± 3 dB)
Signal-to-Noise Ratio:
Dolby NR ON..... 64 dB (Metal tape)
Dolby NR OFF..... 56 dB (Metal tape)
Harmonic Distortion..... Less than 0.9% (at 1 kHz, 0 VU with Normal tape)
Wow and Flutter..... 0.055% (W.R.M.S.)
Input Sensitivity/Impedance:
LINE × 2..... 70 mV/50 kohms
Microphones × 2..... 0.5 mV/3.3 kohms
Output Level/Load Impedance:
LINE × 2..... 360 mV (0 VU)/2.7 kohms
Headphones × 1..... 0.1 mW/8 ohms
Power Requirements..... AC 120V, 60 Hz: U.S.A. and Canada models
AC 120V/220-240V (Switchable), 50/60 Hz: Other countries
Power Consumption..... 11 watts (U.S.A. and Canada)
14 watts (Others)
Dimensions..... W: 420 mm (16-17/32")
H: 112 mm (4-13/32")
D: 278 mm (10-15/16")
Weight..... 3.5 kg (7.7 lb)
Supplied Accessories..... Audio connection cable × 2
Head cleaning set × 1
Reference Tapes..... Normal: KENWOOD ND/ND-X60, TDK AD/AD-X60
CrO_2: KENWOOD CD-60, TDK SA-60
Metal: KENWOOD MD-60, TDK MA-R-60

Note:
We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.
Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

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